

M-4 # 5 04-22-02
IN THE UNITED STATES PATENT AND TRADEMARK OFFICETDS/ #5/30
RECEIVED
APR 04 2002
TECH CENTER 1600/2900Applicants: Collins, D.A. *et al.*

Serial No.: 10/027,593

Group Art Unit: 1614

Filed: October 25, 2001

Examiner: Not Yet Assigned

For: Transcobalamin Binding Conjugates Useful for Treating Abnormal Cellular Proliferation

Assistant Commissioner for Patents
Washington, DC 20231

March 26, 2002

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, Applicants cite the publication listed on the accompanying Form PTO-1449A. A copy of the listed reference is enclosed. The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under the applicable statutes, Rules of Practice in patent cases, or otherwise.

If the Examiner determines a fee is required, the Commissioner is authorized to charge any requisite fees associated with this paper to Deposit Account No. 11-0980.

Respectfully submitted,

Josephine Young
Registration No. 48,308KING & SPALDING
191 Peachtree Street
Atlanta, GA 30303
404-572-4600 (Telephone)
404-572-5145 (Facsimile)**BEST AVAILABLE COPY**



CERTIFICATE OF MAILING (37 CFR 1.8a)

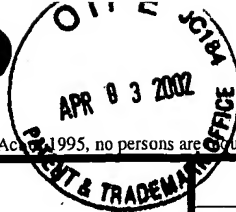
I hereby certify that this Information Disclosure Statement, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date shown below with sufficient postage as first-class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

A handwritten signature in cursive script that reads "Aisha Whitted".

Aisha Whitted

Date: March 26, 2002

Please type a plus sign (+) inside this box → ☐



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/027,593
Filing Date	October 25, 2001
First Named Inventor	Collins, D.A. <i>et al.</i>
Group Art Unit	1614
Examiner Name	N/A
Attorney Docket Number	07959.105022 (COP1008 US)

Sheet **1** of **3**

RECEIVED
APR 04 2002
TECH CENTER 1600/2900

RECEIVED

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	3,936,440		Nath	02-03-1976	
	AB	3,981,863		Niswender <i>et al.</i>	09-21-1976	
	AC	4,209,614		Bernstein <i>et al.</i>	06-24-1980	
	AD	4,279,859		Gutcho <i>et al.</i>	07-21-1981	
	AE	4,283,342		Yollees	08-11-1981	
	AF	4,301,140		Frank <i>et al.</i>	11-17-1981	
	AG	4,465,775		Houts	08-14-1984	
	AH	5,308,606		Wilson <i>et al.</i>	05-03-1994	
	AI	5,405,839		Toraya <i>et al.</i>	04-11-1995	
	AJ	5,428,023		Russell-Jones <i>et al.</i>	06-27-1995	
	AK	5,449,720		Russell-Jones <i>et al.</i>	09-12-1995	
	AL	5,514,695		Bergeron	05-07-1996	
	AM	5,548,064		Russell-Jones <i>et al.</i>	08-20-1996	
	AN	5,574,018		Habberfield <i>et al.</i>	11-12-1996	
	AO	5,589,463		Russell-Jones <i>et al.</i>	12-31-1996	
	AP	5,608,060		Axworthy <i>et al.</i>	03-04-1997	
	AQ	5,739,313		Collins <i>et al.</i>	04-14-1998	
	AR	5,807,832		Russell-Jones <i>et al.</i>	09-15-1998	
	AS	5,840,880		Morgan, Jr. <i>et al.</i>	11-24-1998	
	AT	5,869,465		Morgan, Jr. <i>et al.</i>	02-09-1999	
	AU	5,869,466		Russell-Jones <i>et al.</i>	02-09-1999	
	AV	5,936,082		Bauer	08-10-1999	
	AW	6,004,533		Collins <i>et al.</i>	12-21-1999	
	AX	6,083,966		Bergeron, Jr.	07-04-2000	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

APR 03 2002

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/027,593
Filing Date	October 25, 2001
First Named Inventor	Collins, D.A. <i>et al.</i>
Group Art Unit	1614
Examiner Name	N/A
Attorney Docket Number	07959.105022 (COP1008)

Sheet **2** of **3**

RECEIVED
APR 04 2002
TECH CENTER 1600/2980

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	BA	6,096,290		Collins <i>et al.</i>	08-01-2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document DD-MM-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number	Kind Code ² (if known)				
	BB	PCT	97/18231		Collins <i>et al.</i>	22-05-1997		
	BC	PCT	98/08859		Grissom <i>et al.</i>	05-03-1998		
	BD	PCT	99/65930		Russell-Jones <i>et al.</i>	23-12-1999		
	BE	DE	1,811,518		Zumstein <i>et al.</i>	10-07-1969		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	BF	ALLEN, R.H., <i>et al.</i> "Isolation of Gastric Vitamin B ₁₂ -binding Proteins Using Affinity Chromatography." <i>J. Biol Chem.</i> 248(10):3660-3669, May 25, 1973.	
	BG	ALLEN, R.H., <i>et al.</i> "Isolation of Vitamin B ₁₂ -binding Proteins Using Affinity Chromatography." <i>J. Biol Chem.</i> 247(23):7695-7701, December 10, 1972.	
	BH	ANTON, D.L., <i>et al.</i> "Carbon-13 Nuclear Magnetic Resonance Studies of the Monocarboxylic Acids of Cyanocobalamin. Assignments of the B-, D-, and E-Monocarboxylic Acids." <i>J. Am. Chem. Soc.</i> 102(7):2215-2219, March 26, 1980.	
	BI	BERNHAUER, K., <i>et al.</i> "Zur Chemie und Biochemie der Corrinioide." <i>Biochem. Z.</i> , 344:289-309, 1966.	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (as many sheets as necessary) Sheet <u>1</u> of <u>3</u>		Application Number	10/027,593
		Filing Date	October 25, 2001
		First Named Inventor	Collins, D.A. et al.
		Group Art Unit	1614
		Examiner Name	N/A
		Attorney Docket Number	07959.105022 (COP1008 U)

RECEIVED

APR 04 2002

TECH CENTER 1600/2900

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	CA	BOUCHAUDON, J., et al. "Daunomycin derivatives." <i>Chemical Abstracts</i> . 71(91866):440, 1969.	
	CB	COLLINS, D.A., et al. "Transcobalamin II Receptor Imaging via Radiolabeled Diethylene-Triaminepentaacetate Cobalamin Analogs." <i>J. Nucl. Med.</i> , 38, 717-723 (1997).	
	CC	COLLINS, D.A., et al. "Tumor Imaging Via Indium 111-Labeled DTPA-Adenosylcobalamin." <i>Mayo Clinic Proc.</i> 74:687-691, 1999.	
	CD	ELLENBOGEN, L., "Absorption and Transport of Cobalamin: Intrinsic Factor and the Transcobalamins." <i>Cobalamin: Biochem. and Pathophysiol.</i> . Babior, ed., Wiley, N.Y. (1975) Chapter 5.	
	CE	HOGENKAMP, H.P.C. et al. "Carbon-13 Nuclear Magnetic Resonance Studies of Adenosylcobalamin and Alkylcorrinoids, Selectively Enriched with Carbon-13." <i>Biochemistry</i> . 14(16):3707-3714, 1975.	
	CF	HOGENKAMP, H.P.C. "Chemical synthesis and properties of analogs of adenosylcobalamin." <i>Biochemistry</i> . 13(13):2736-2740, 1974.	
	CG	HOGENKAMP, H.P.C. et al. "Synthesis and Characterization of nido-Carborane-Cobalamin Conjugates." <i>Nucl. Med. & Biol.</i> 27:89-92, 2000.	
	CH	JACOBSEN, D.W., et al. "Rapid Purification of Cobalamin-Binding Proteins Using Immobilized Aminopropylcobalamin." <i>Anal. Biochem.</i> 113:164-171, 1981.	
	CI	KIKUGAWA, K. et al. "Direct Halogenation of Sugar Moiety of Nucleosides." <i>Tetrahedron Lett.</i> No. 2:87-90, 1971.	
	CJ	NEXO, E. "Cobalamin Binding Proteins." <i>Vitamin B₁₂ and B₁₂-proteins</i> . eds. Krantler, B., et al.; Wiley & Sons, Ltd. 461-475.	
	CK	TORAYA, T., et al. "Preparation, Properties and Biological Activities of Succinyl Derivatives of Vitamin B ₁₂ ." <i>Bioinorg. Chem.</i> 4:245-255, 1975.	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.